
CDF Operations Report



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CDF Weekly Meeting
September 21, 2006

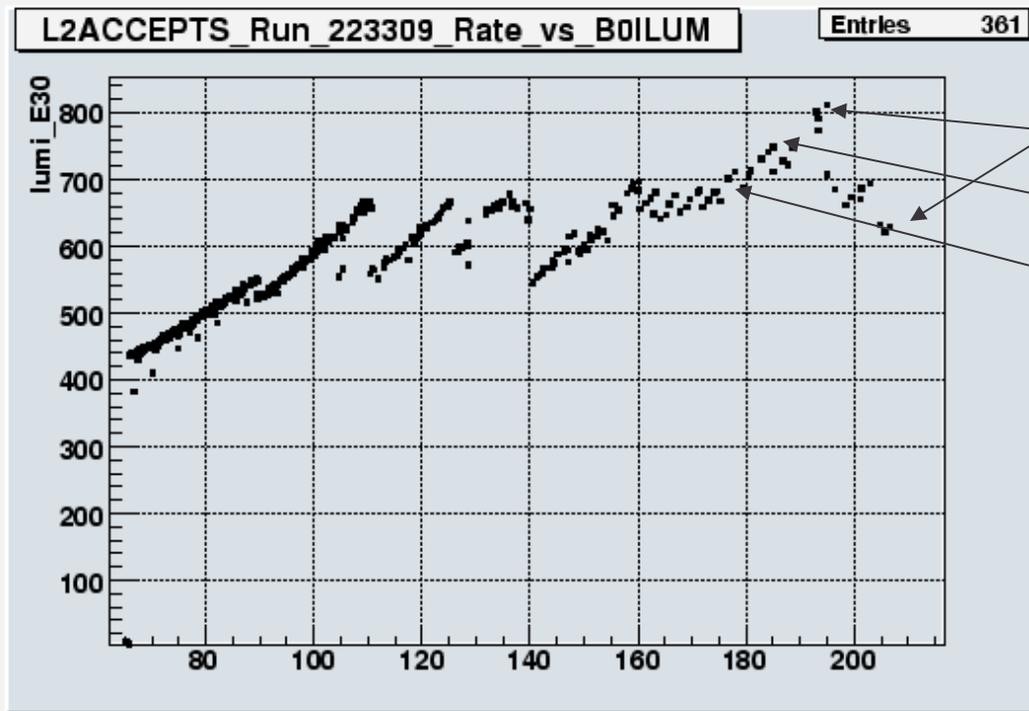
Store Summary (September 14-21)

Store	Start Date	Duration (hours)	Initial Lum (E30)	Delivered Lum (pb ⁻¹)	Live Lum (pb ⁻¹)	Good w/Si (pb ⁻¹)	Comments
4957	9/14 Thu	20.8	98.7	3.19	2.31 72%	1.81 57%	XTRP and DB problems silicon bias scan w/beam
4959	9/15 Fri	26.1	179.0	6.07	5.34 88%	5.32 88%	test new trigger table
4960	9/17 Sun	12.5	197.4	4.73	3.47 73%	0.87 18%	TL2D issues bad CMU TDC, quench
4962	9/17 Sun	23.7	126.3	4.33	3.61 83%	3.45 80%	silicon trip TL2D fix tests
4963	9/19 Tue	31.4	211.4	7.86	6.64 84%	6.33 81%	XFT upgrade tests record shift 3.12 pb ⁻¹
4964	9/20 Wed	8.7	235.4	4.24	3.29 78%	0.53 13%	FIB out (parts of ISL+LOO) quench
Total		123.2		30.4	24.7 81%	18.3 60%	
Previous		120.5		29.6	22.1 75%	20.2 68%	

CDF Operations

- Wed 9/20: controlled access
 - Replace FIB in bofib05
- Other activities
 - Silicon bias voltage scan with beam
 - First beam tests of CSL upgrade – mostly successful
 - More beam testing of XFT stereo firmware – just about to freeze
- New trigger table PHYSICS_4_00_v-7
 - Luminosity enables on inclusive CMX, MET+2JET, HIGGS_HIGH_PT_BJET paths
 - Prescaled backups for each to look at rates
 - New XFT stereo test trigger paths
- New table has 153 L2 triggers (previously 136) – needed a little extra work
 - Can overflow S-Link buffer size at high lum – scalers get dropped
 - Will mess up the prescaled luminosity accounting
 - Work-around now in place thanks to Vadim and Bill
 - More permanent solution in progress – redefine bank structure

New v7 Trigger Table



Initial configuration

CMX triggers

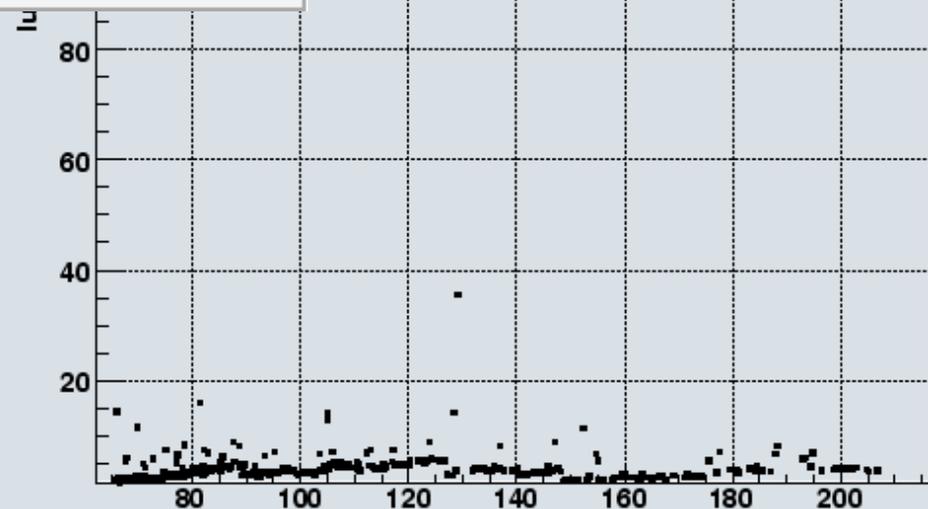
MET+2JET

HIGGS_HIGH_PT_BJET

- Deadtime is <10% for any luminosity up to 210

23309_vs_B0ILUM

Entries 361



- Devoting quite a bit of beam to XFT stereo tests
- Expect to start the final operations test next week, then into production

